

Operator Training

Line Tightness Test

D H E C



PROMOTE



PROTECT



PROSPER

South Carolina Department of Health
and Environmental Control

Pressurized Lines

Release detection regulations for piping state that there must be a method to look for the “big” leak (3.0 gallons per hour continuously) as well as the “little” leak (either 0.2 gallons per hour monthly or 0.1 gallons per hour yearly). A Line Tightness Test can satisfy the requirement for the little leak. You will have an additional method of line leak detection to look for the big leak.

Pressurized Lines

There are several ways to look for the big leak as well as the little leak:

- Big Leak = 3.0 gallons per hour continuously

 - Mechanical Line Leak Detector (LLD)

 - Electronic Line Leak Detector (ELD)

- Little Leak = 0.2 gallons per hour monthly or 0.1 gallons per hour annually

 - Monthly Statistical Inventory Reconciliation (0.2 gph monthly)

 - Monthly Interstitial Monitoring (0.2 gph monthly)

 - Monthly monitoring with an Electronic Line Leak Detector (0.2 gph or 0.1 gph)

 - Annual Line Tightness Test (0.1 gph yearly)

Line Tightness Test

An acceptable line tightness test must be able to detect a leak at least as small as 0.1 gallon per hour. Typical testing procedure is to take the line out of service and pressurize it to 1.5 times its normal operating pressure using hydraulic pressure or nitrogen. A drop in pressure over time, usually an hour or so, suggests a possible leak. Most line tightness tests are performed by testers who have been certified by the manufacturer of the testing equipment.



Line Tightness Test

Line Tightness Tests for pressurized lines are annual tests. The line tightness test should be performed within 365 days of the previous test. That means if the test was performed on September 1, 2009, the next test is due on or before September 1, 2010. Keep this test with other release detection records for at least one year or until the next test is performed.

AAA Tank Testers
P.O. Box 789
Braselton, GA 30517-0789
(706) 654-1880 Toll Free (800) 748-2219

Date Completed: 7/18/2008
Invoice Number: 20080602

Test Site: _____ Bill To: _____

CERTIFICATE OF TEST RESULTS

Certified test results for the test site are summarized below. Testing has been conducted in accordance with all federal and local regulations.

TANK TEST RESULTS

Tank	Type of Test	Product	Tank Capacity	Tank Diameter	Tank Test Result	Volume Change	Ullage Result
NA							

LINE AND LEAK DETECTOR TEST RESULTS

Tank	Line Type	Product	Volume Change	Line Test Results	Leak Detector Results	Leak Detector Serial #
1	Pressure	Regular Unleaded	0	PASS	Yes	XXXXXX-0006
2	Pressure	Premium Unleaded	0	PASS	Yes	00073003

Comments: Flexible piping. Pretest performed from 12:35 am to 1:35 am.

Test conducted by: Scooby Knight

Technician Certification Number: QA601020413100 Technician's Signature: *S-K*

**ACURITE / FTA
Line/LD Test Data Sheet**

COMPANY	TEST NUMBER
LOCATION	TEST DATE: 9/1/2009
ADDRESS	TECHNICIAN
CITY / STATE	CERTIFICATION

LINE TEST

Product	Regular	Mid Grade	Premium	Kerosene
STP MFG	Red Jacket	Red Jacket	Red Jacket	Red Jacket
Isolation	B-Valve	B-Valve	B-Valve	B-Valve
Test Pressure	45	45	45	45
Initial Level	.0800	.0800	.0800	.0950
Final Level	.0800	.0800	.0800	.0950
Leak Rate	.000	.000	.000	.000
Start Time	15:45	15:45	15:45	16:50
End Time	16:15	16:15	16:15	17:20
Test Time	30	30	30	30
Result:	Pass	Pass	Pass	Pass

LD TEST

LD Model	ELD	ELD	ELD	ELD
Result:	Pass	Pass	Pass	Pass
New LD Model				
Result:				

COMMENTS